



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

HWD Acquisition, Inc. dba Hurd Windows & Doors
575 South Whelen Avenue
Medford, WI 54451

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Feel Safe" Outswing Aluminum Clad Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1403, titled "Feel Safe Aluminum Clad Wood Impact Operable Casement Window", sheets 1 through 6 of 6, dated 07/21/05, with revision D1 dated 12/18/14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 11-1006.05 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



Handwritten signature and date:
7/3/24/15

NOA No. 14-1224.03
Expiration Date: June 29, 2016
Approval Date: April 02, 2015
Page 1

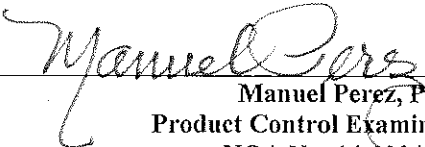
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1403**, titled "Feel Safe Aluminum Clad Wood Impact Operable Casement Window, sheets 1 through 6 of 6, dated 7/21/05, with revision D1 dated 12/18/14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7776.1** dated 03/04/09, signed and sealed by Tom Kolden, P.E.
(Submitted under NOA #09-0714.05)
2. Test Report on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7705.1** dated 11/07/09, signed and sealed by Tom Kolden, P.E.
(Submitted under NOA #09-0714.05)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-60529.01-602-18**, dated 10/11-14/05, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA #06-0130.03)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-1224.03

Expiration Date: June 29, 2016
Approval Date: April 02, 2015

HWD Acquisition, Inc. dba Hurd Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each
consisting of three-panel configuration of aluminum clad casement windows, prepared
by Architectural Testing, Inc., Test Report No. **ATI-522274.04-602.18**, dated
07/28/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA #06-0130.03)

C. CALCULATIONS:

1. Anchor Calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 06/29/09, 05/12/11, and 10/04/11, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA #11-1006.05)
2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.
2. Notice of Acceptance No. **13-0814.01** issued to **Oldcastle Glass Inc.** for their "**StormGlass™ Glass Interlayer**", dated 10/24/13, expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010** and **FBC-5th Edition (2014)**, dated December 18, 2014, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated December 18, 2014, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. Notice of Acceptance No. **11-1006.05**, issued to HWD Acquisition, Inc. dba Hurd Windows & Doors for their Series "**Feel Safe**" Outswing Aluminum Clad Wood Casement Window – L.M.I., approved on 11/17/11 and expiring on 06/29/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-1224.03

Expiration Date: June 29, 2016

Approval Date:

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

CORNER CONSTRUCTION:

WOOD FRAME: SQUARE CUT, RABBETED, SILICONE SEALED & SECURED WITH THREE (3) 16 GA. X 1/2" X 2" CROWN STAPLES.

FRAME CLAD: MITER CUT, JOINED WITH A CORNER KEY & TWO (2) NO. 7 X 1/2" SCREWS & SEALED WITH A FOAM GASKET.

WOOD SASH: MORTISE & TENON CONSTRUCTION AND SECURED WITH TWO (2) 14 GA. X 2 1/2" T-NAILS.

SASH CLAD: SQUARE CUT, BUTTED TOGETHER AND SNAP FIT TO SASH AND SEALED WITH SILICONE.

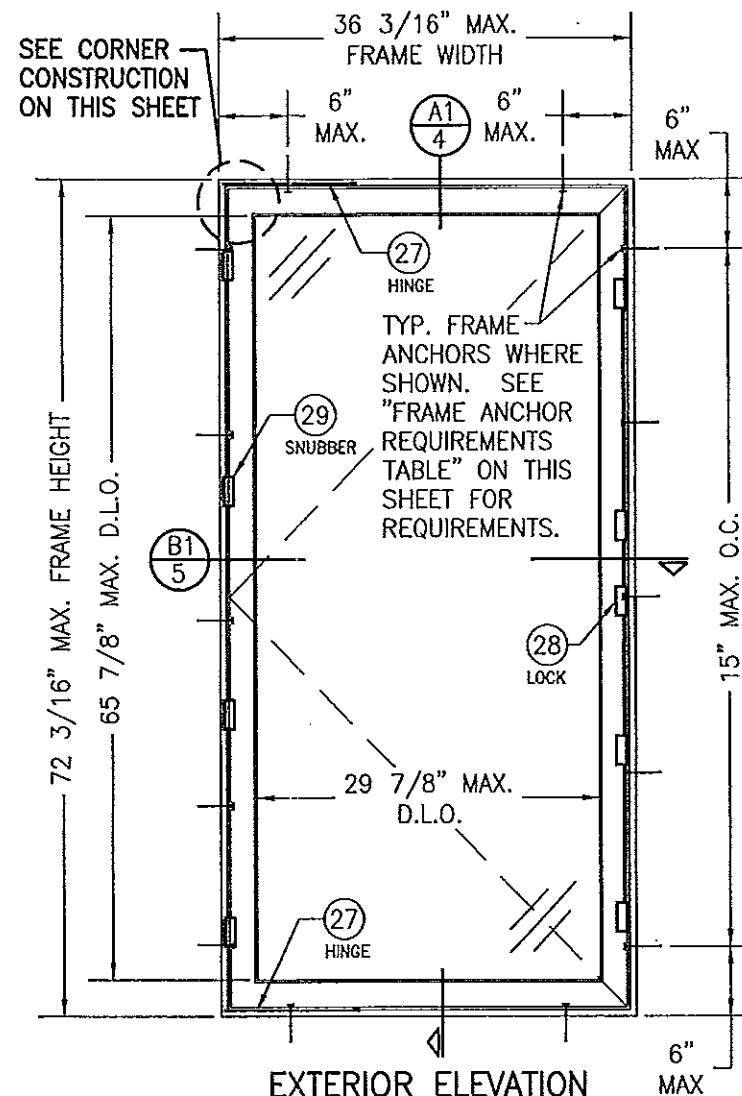
LOCK REQUIREMENTS	
MAX. FRAME HEIGHT	NO. OF LOCK STRIKES
72 3/16"	5
60 3/16"	4
48 3/16"	3
32 3/16" & LESS	2

SNUBBER REQUIREMENTS	
MAX. FRAME HEIGHT	NO. OF SNUBBERS REQUIRED
72 3/16"	4
53 3/16"	3
34 3/16" & LESS	2

FRAME ANCHOR REQUIREMENTS TABLE

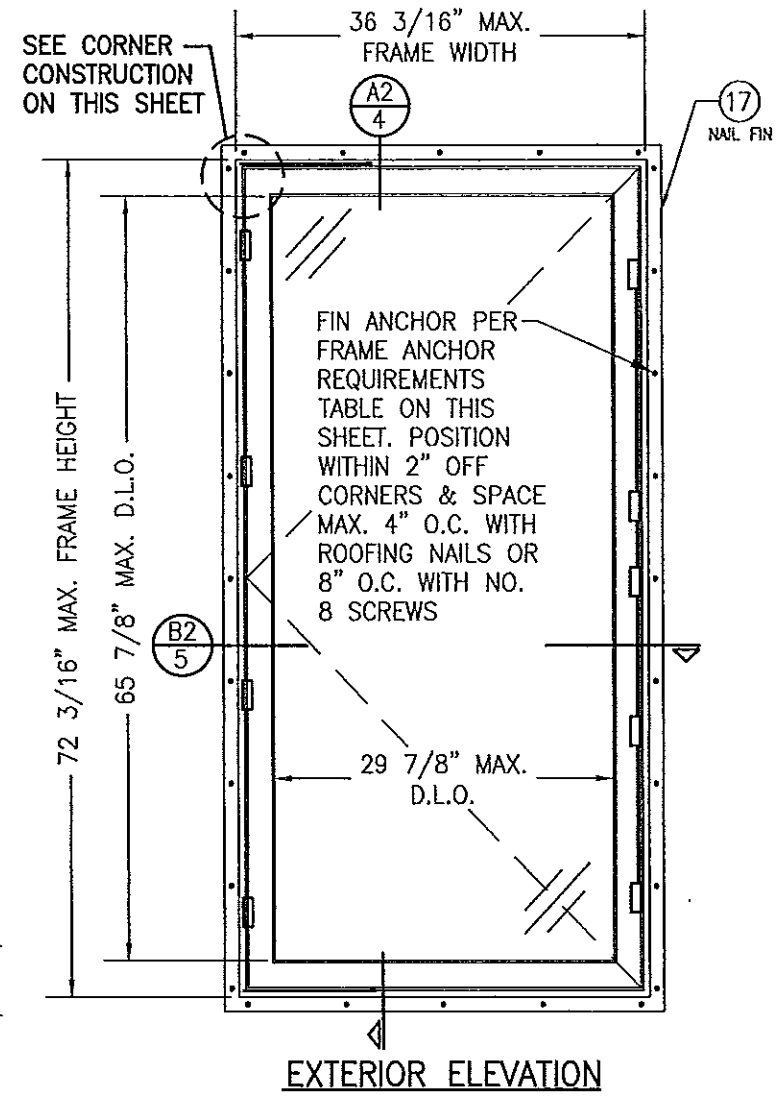
OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/4"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- (2) NAIL FIN SCREWS SHALL BE A PAN HEAD OR HEX HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION
SINGLE WINDOW
(FRAME SCREW MOUNT)

SCALE: 3/4"=1'-0"



EXTERIOR ELEVATION
SINGLE WINDOW
(FIN MOUNT)

SCALE: 3/4"=1'-0"

FOR INFORMATION NOT SHOWN, SEE FRAME SCREW MOUNTED SINGLE WINDOW ELEVATION

ALLOWABLE DESIGN PRESSURE (SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME WIDTH (IN.)	MAXIMUM FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
			POSITIVE (PSF)	NEGATIVE (PSF)
1	36 3/16	72 3/16	65	70
2 & 3	36 3/16	60 3/16	65	85
4	36 3/16	72 3/16	65	65
4	32 3/16	72 3/16	65	70
4	36 3/16	68 3/16	65	70

SEE GLAZING DETAILS FOR GLASS OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1224.03
Expiration Date June 21, 2016
By *Manuel Perez*
Miami Dade Product Control

DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

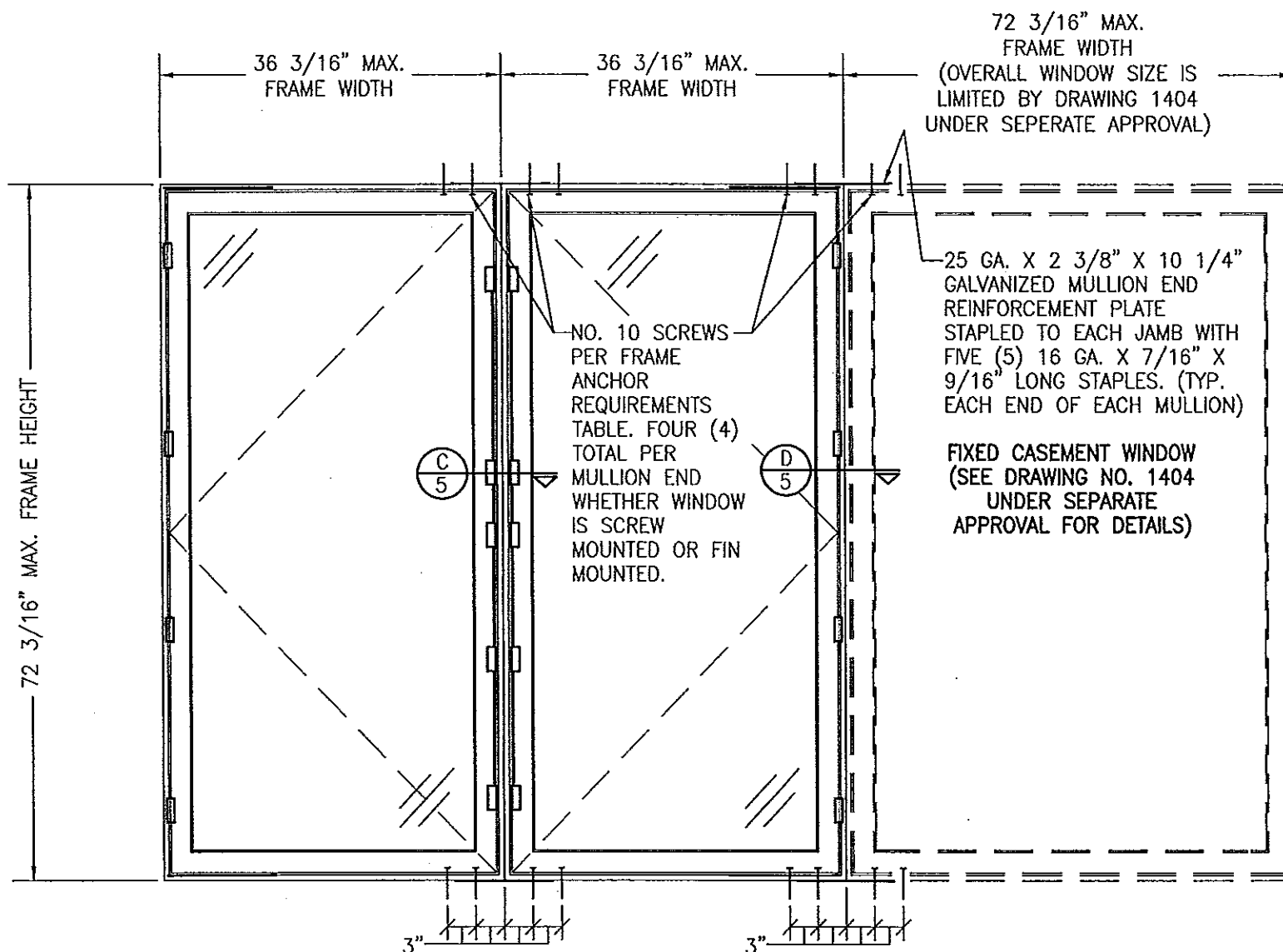
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
DEC 18 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWN BY: S.T.R.
CHECKED BY: W.W.S.
PLOT: 1-16
DATE: 7/21/05

REVISION	DESCRIPTION	DATE	BY
A1	ADD TWIN WINDOW WITH TRANSOM	06/25/09	WRM
B1	CONDITION	06/25/11	WRM
C1	CHANGE MANUFACTURER NAME	10/04/11	WRM
D1	UPDATE CONSULTANT ADDRESS	12/18/14	WWS
D1	UPDATE TO CURRENT STANDARDS		

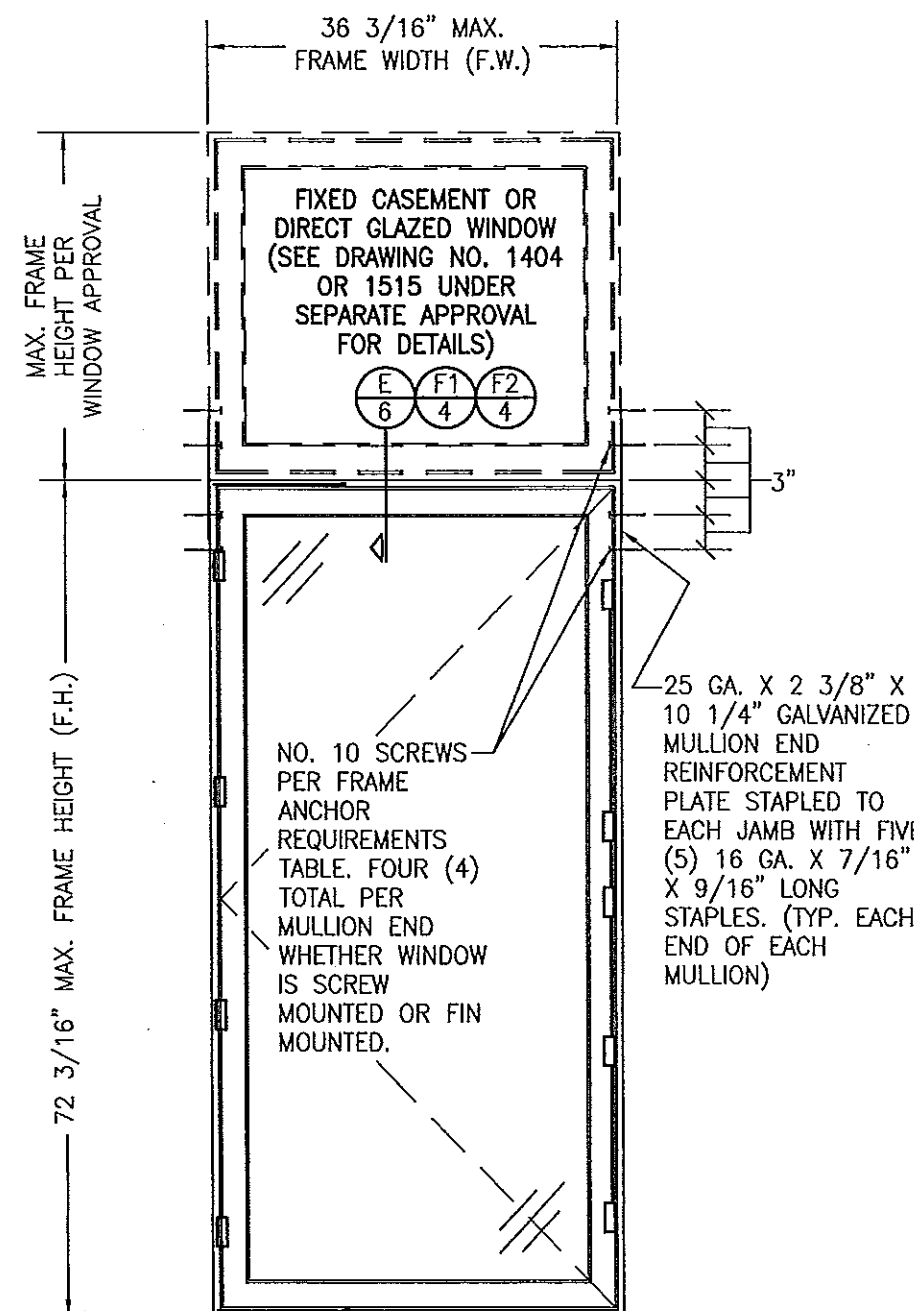
DRAWING NO. 1403
SHEET NO. 1 OF 6



EXTERIOR ELEVATION
MULTIPLE SIDE-BY-SIDE OPERABLE/FIXED WINDOWS
 SCALE: 3/4"=1'-0"
 (FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)
 (TRIPLE WINDOW SHOWN. MORE THAN 3 WINDOWS MAY BE COMBINED
 HORIZONTALLY IN ONE OPENING IN ANY COMBINATION OF FIXED & OPERABLE)
 NOTE: FOR FIXED TO FIXED, SEE DRAWING 1404 UNDER SEPARATE APPROVAL

FOR INFORMATION NOT SHOWN, SEE SINGLE
 WINDOW ELEVATIONS ON SHEET 1

ALLOWABLE DESIGN PRESSURE (SIDE-BY-SIDE & SINGLE WINDOW WITH TRANSOM)
MULLED UNIT ALLOWABLE DESIGN PRESSURE & INDIVIDUAL WINDOW SIZES WITHIN A MULLED UNIT SHALL BE LIMITED BY THE INDIVIDUAL WINDOW REQUIREMENTS AS SPECIFIED IN THE ALLOWABLE DESIGN PRESSURE TABLE ON SHEET 1.

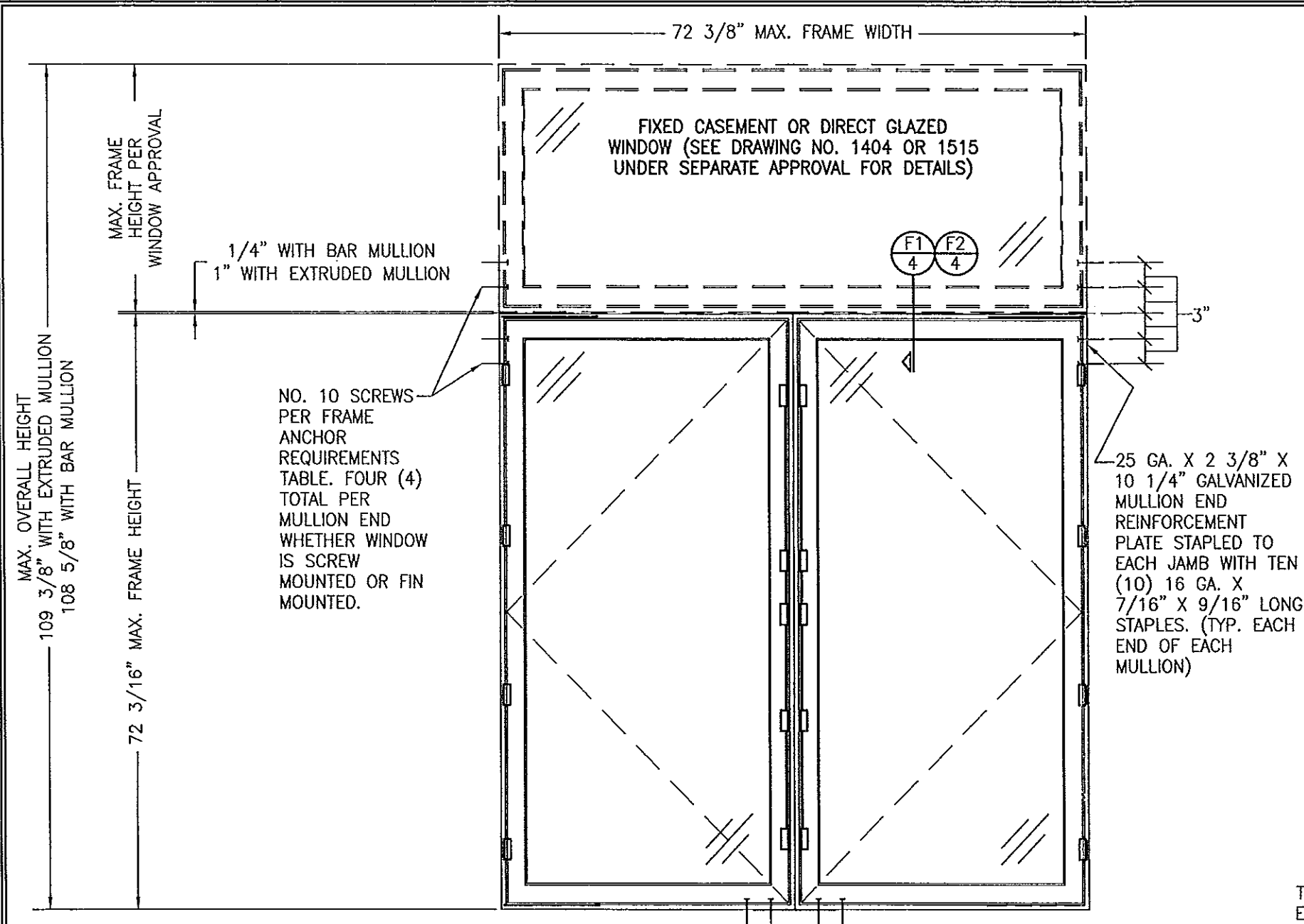


EXTERIOR ELEVATION
SINGLE WINDOW WITH TRANSOM
 SCALE: 3/4"=1'-0"
 (FOR INDIVIDUAL WINDOW INSTALLATION &
 DETAILS, SEE SINGLE WINDOW ELEVATIONS)

FOR INFORMATION NOT SHOWN, SEE SINGLE
 WINDOW ELEVATIONS ON SHEET 1

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-1224-03
 Expiration Date: JUNE 21, 2016
 By: *Manuel Perez*
 Miami Dade Product Control

DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 7/21/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
DEC 18 2014		P.E. NO. 44135	
DRAWING NO. 1403		REV. D	
SHEET NO. 2		OF 6	



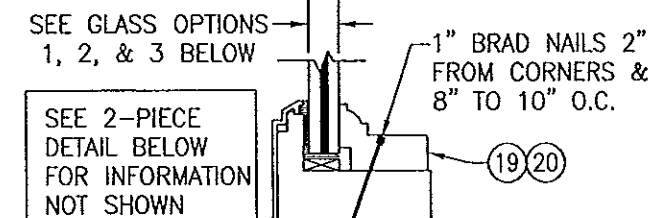
**EXTERIOR ELEVATION
TWIN WINDOW WITH TRANSOM**
SCALE: 3/4"=1'-0"

ELEVATION NOTES:

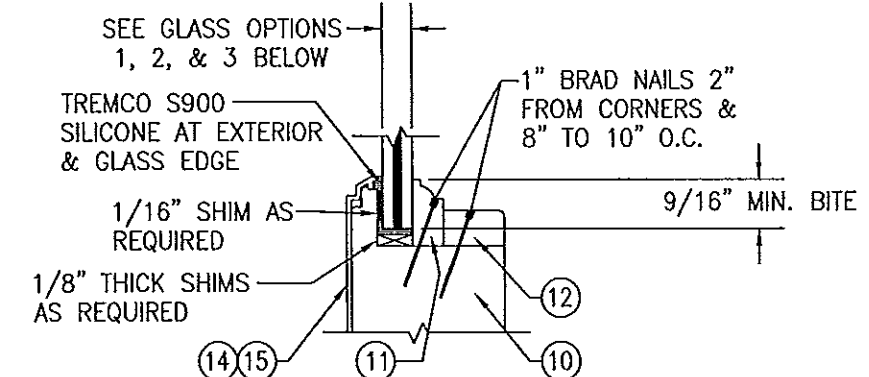
1. FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS.
2. TWIN WINDOWS ARE SHOWN AS "XX". "XO" WINDOW ALSO APPLIES WITH "O" WINDOW BEING A FIXED CASEMENT WINDOW UNDER SEPARATE APPROVAL DRAWING NO. 1404

**ALLOWABLE DESIGN PRESSURE
(TWIN WINDOW WITH TRANSOM)**

AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES (NOT TO EXCEED +65/-70 PSF)

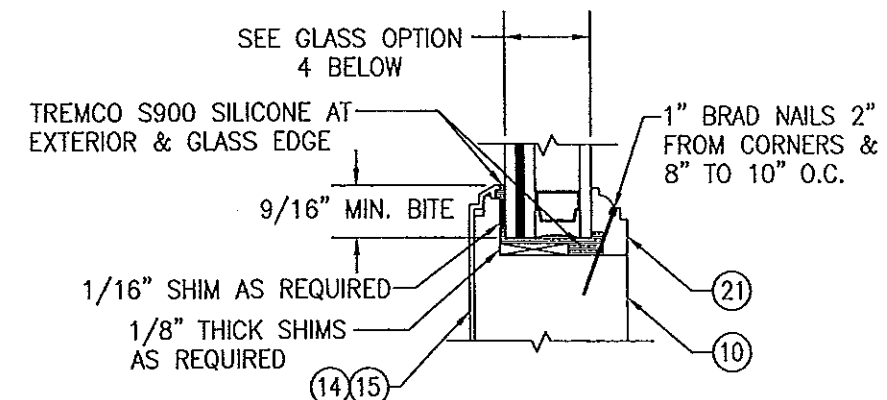


**NON-I.G. GLAZING DETAIL WITH
1-PIECE GLAZING BEAD**



**NON-I.G. GLAZING DETAIL WITH
2-PIECE GLAZING BEAD**

- OPTION 1:** 3/8" LAMINATED GLASS BY OLDCASTLE (5/32" AN/0.09 EASTMAN CHEM. CO. SAFLEX/5/32" AN)
- OPTION 2:** 9/16" LAMINATED GLASS BY OLDCASTLE (1/4" AN/0.075 OLDCASTLE STORM GLASS/1/4" AN)
- OPTION 3:** 9/16" LAMINATED GLASS BY OLDCASTLE (1/4" AN/0.09 EASTMAN CHEM. CO. SAFLEX/1/4" AN)

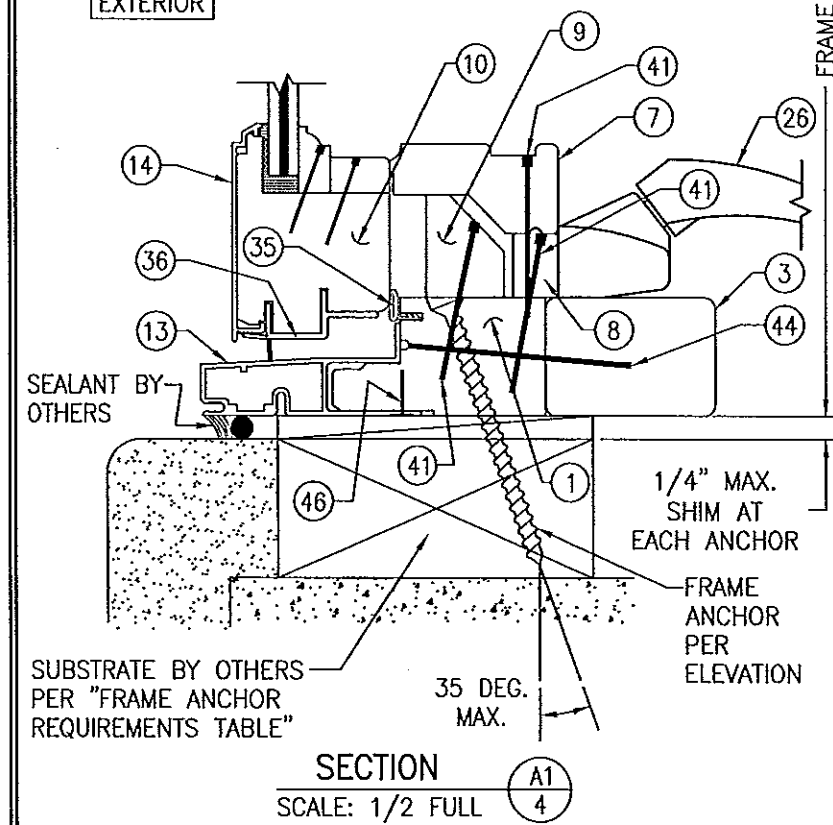
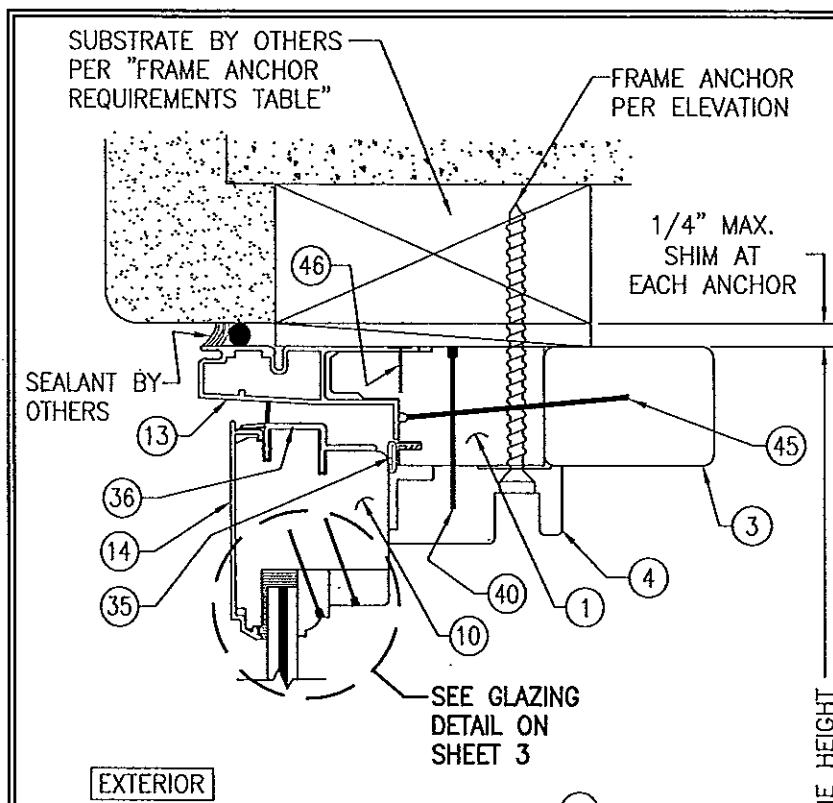


TYPICAL I.G. GLAZING DETAIL

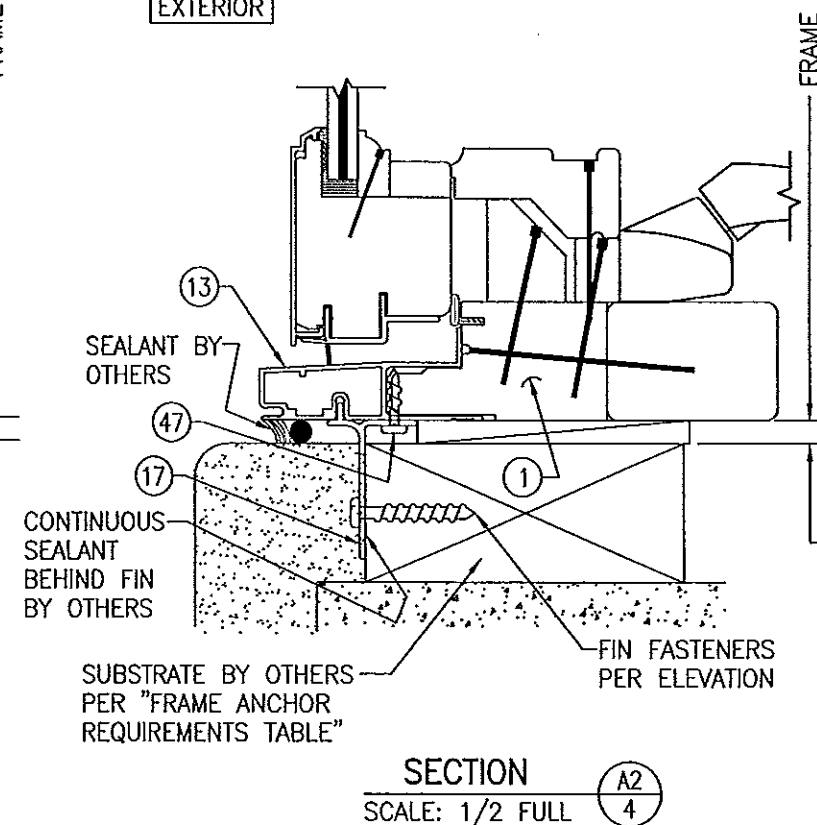
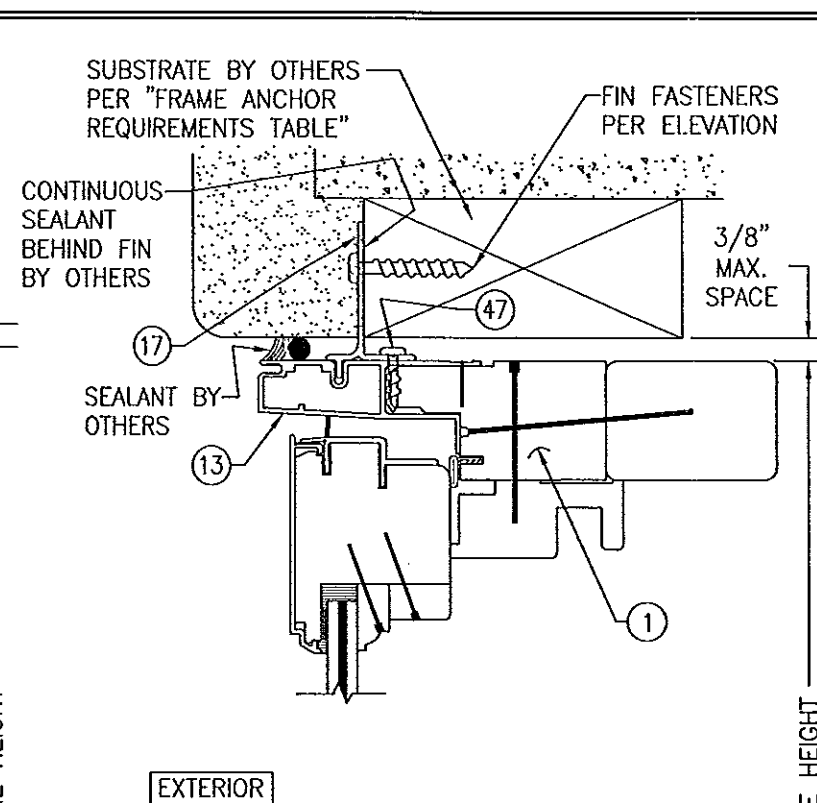
- OPTION 4:** 7/8" LAMINATED I.G. BY OLDCASTLE (1/8" AN/0.09" EASTMAN CHEM. CO. SAFLEX/1/8" AN. EXTERIOR; 7/16" SPACER; 1/8" TEMP. INTERIOR)

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By *Manuel Perez*
Miami/Dade Product Control

DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 7/21/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW			
MANUFACTURER HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION DEC 18 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1403 SHEET NO. 3 OF 6	

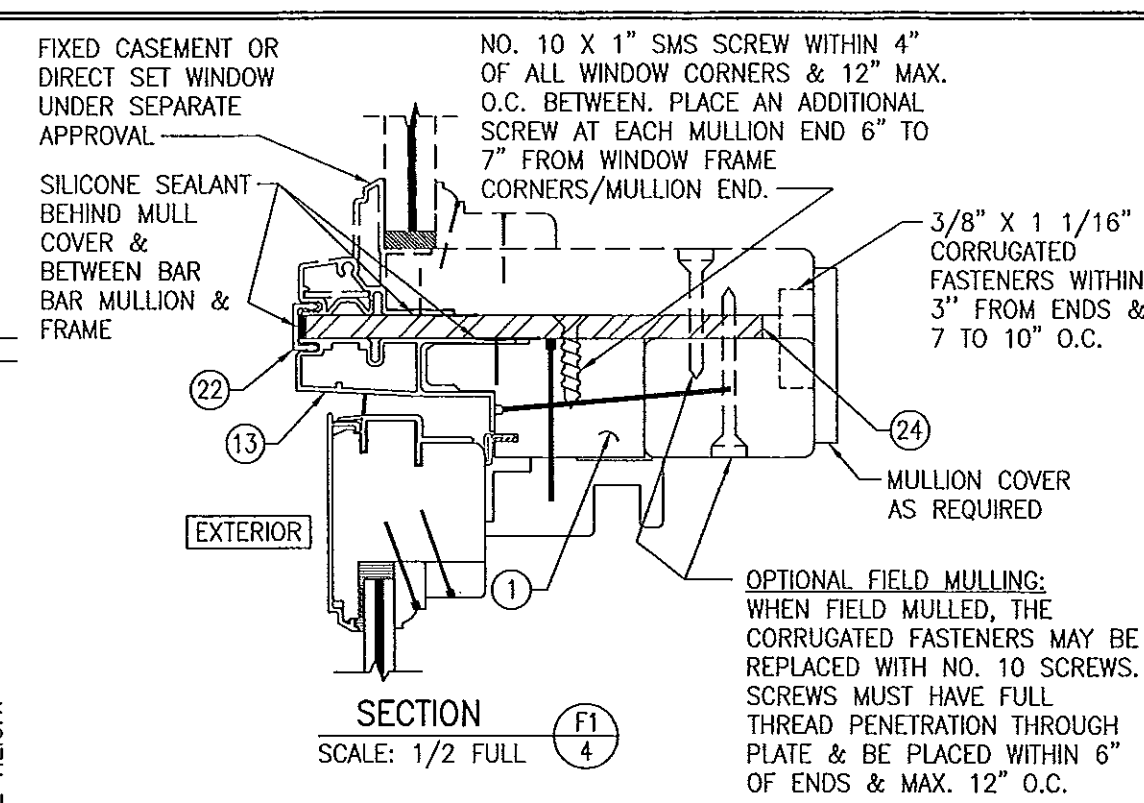


SECTION A1
SCALE: 1/2 FULL

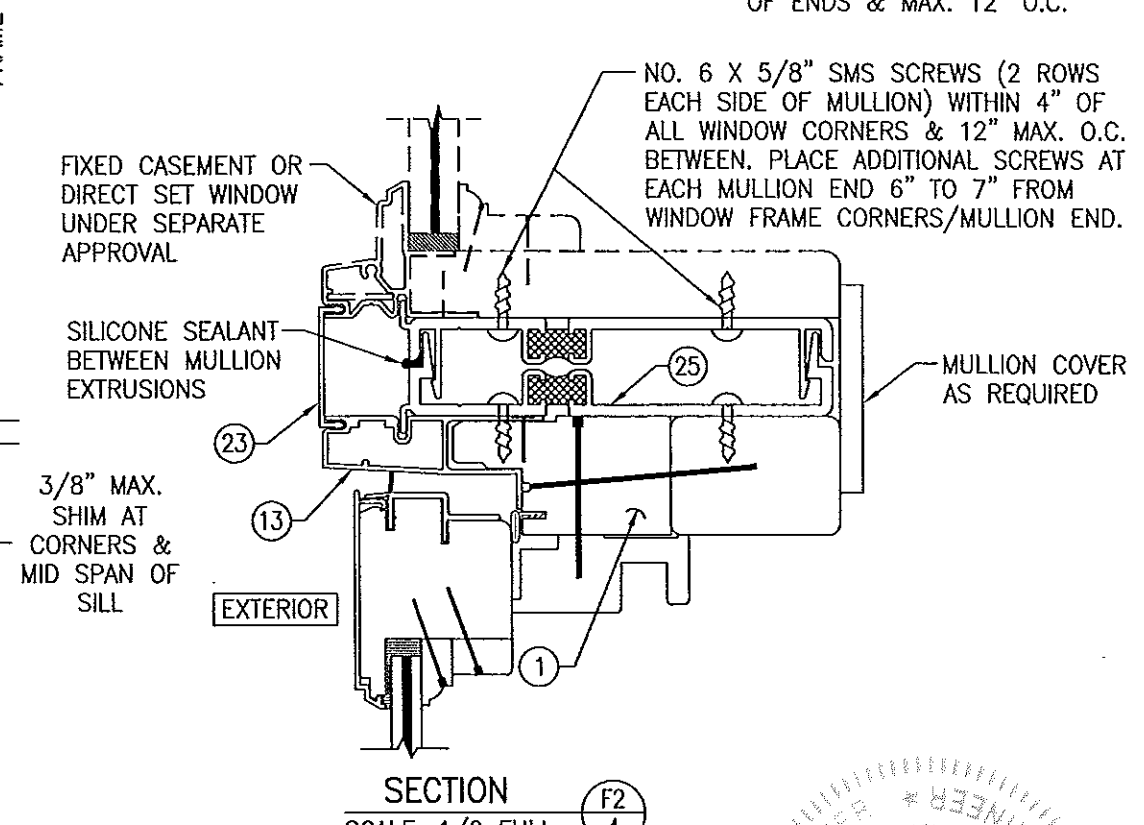


SECTION A2
SCALE: 1/2 FULL

(SEE SECTION A1/4 FOR DETAILS NOT SHOWN)

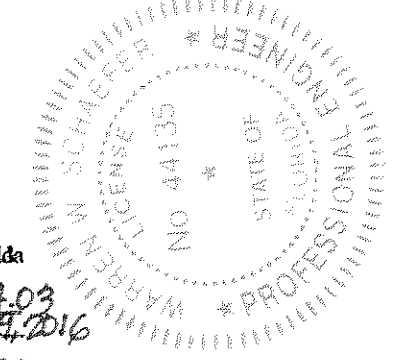


SECTION F1
SCALE: 1/2 FULL



SECTION F2
SCALE: 1/2 FULL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1224-03
Expiration Date July 21, 2016
By *Warren W. Schaefer*
Miami Dade Product Control



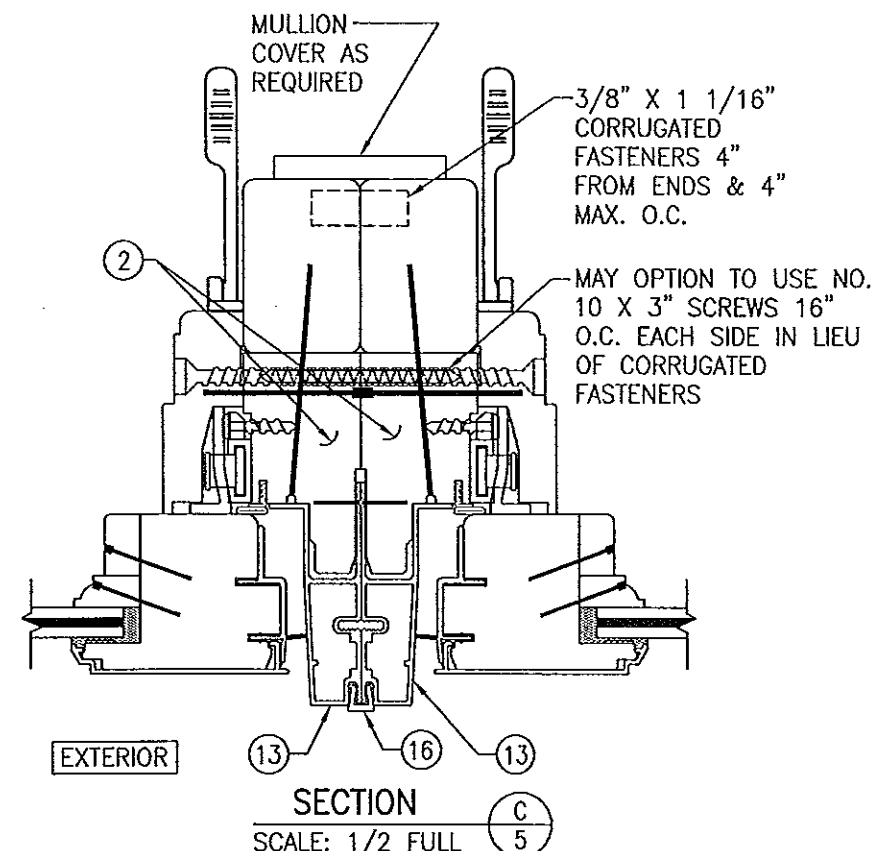
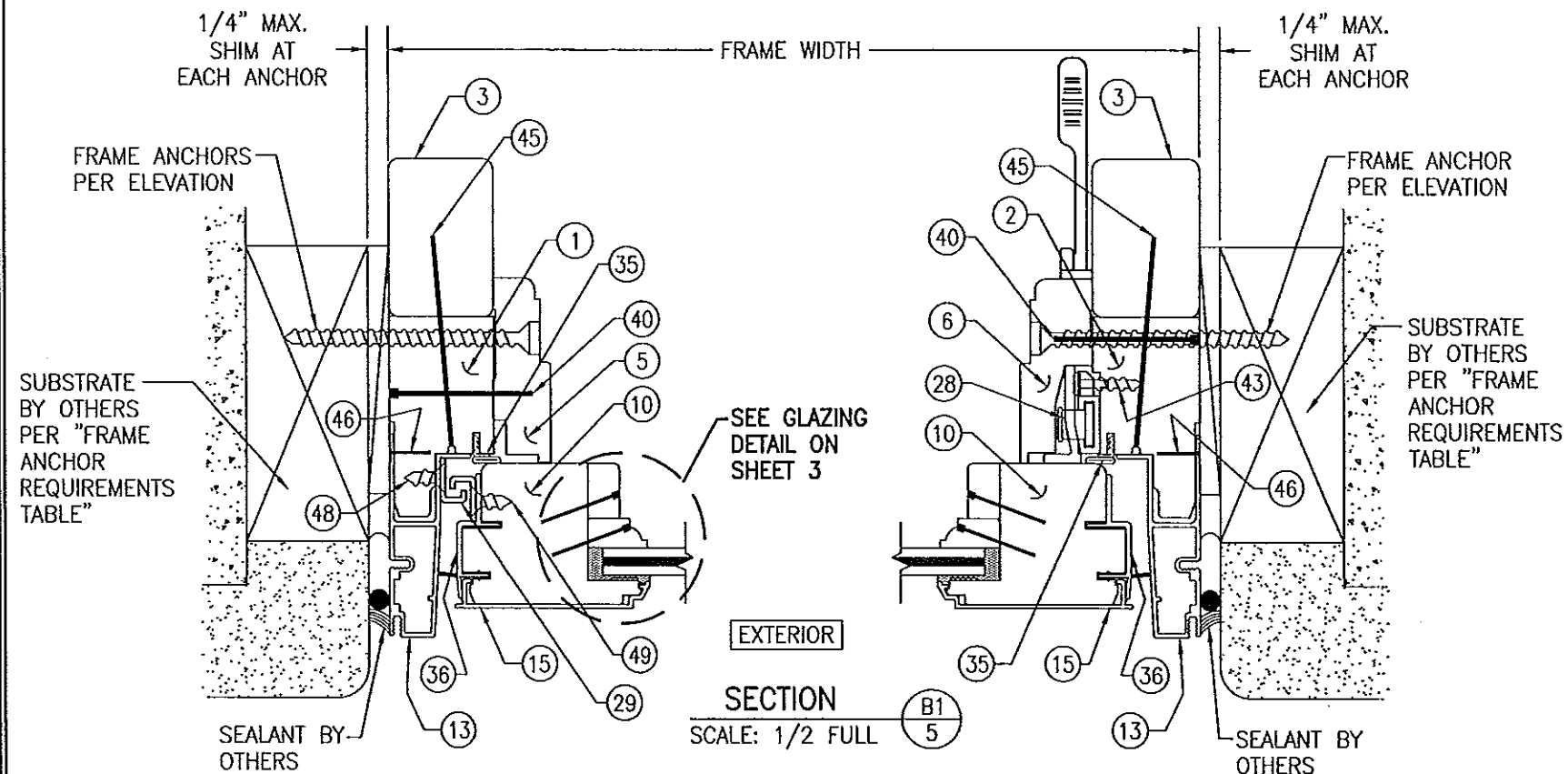
CERTIFICATION	DRAWING NO.		REV.
	1403		D
	SHEET NO.		
	4 OF 6		
	DEC 18 2014		
	WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING TITLE			
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWN BY: S.T.R.			
CHECKED BY: W.W.S.			
PLOT: 1=2		DATE: 7/21/05	
NO.	REVISION DESCRIPTION	BY	DATE

HWD ACQUISITION, INC. dba
HURD WINDOWS & DOORS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873

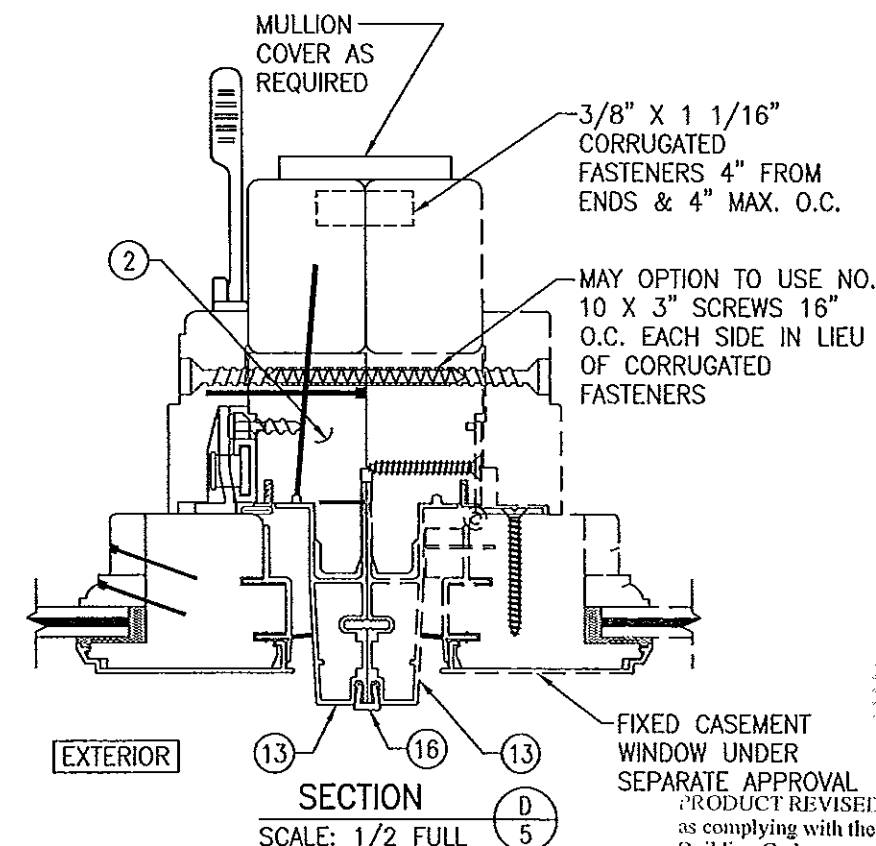
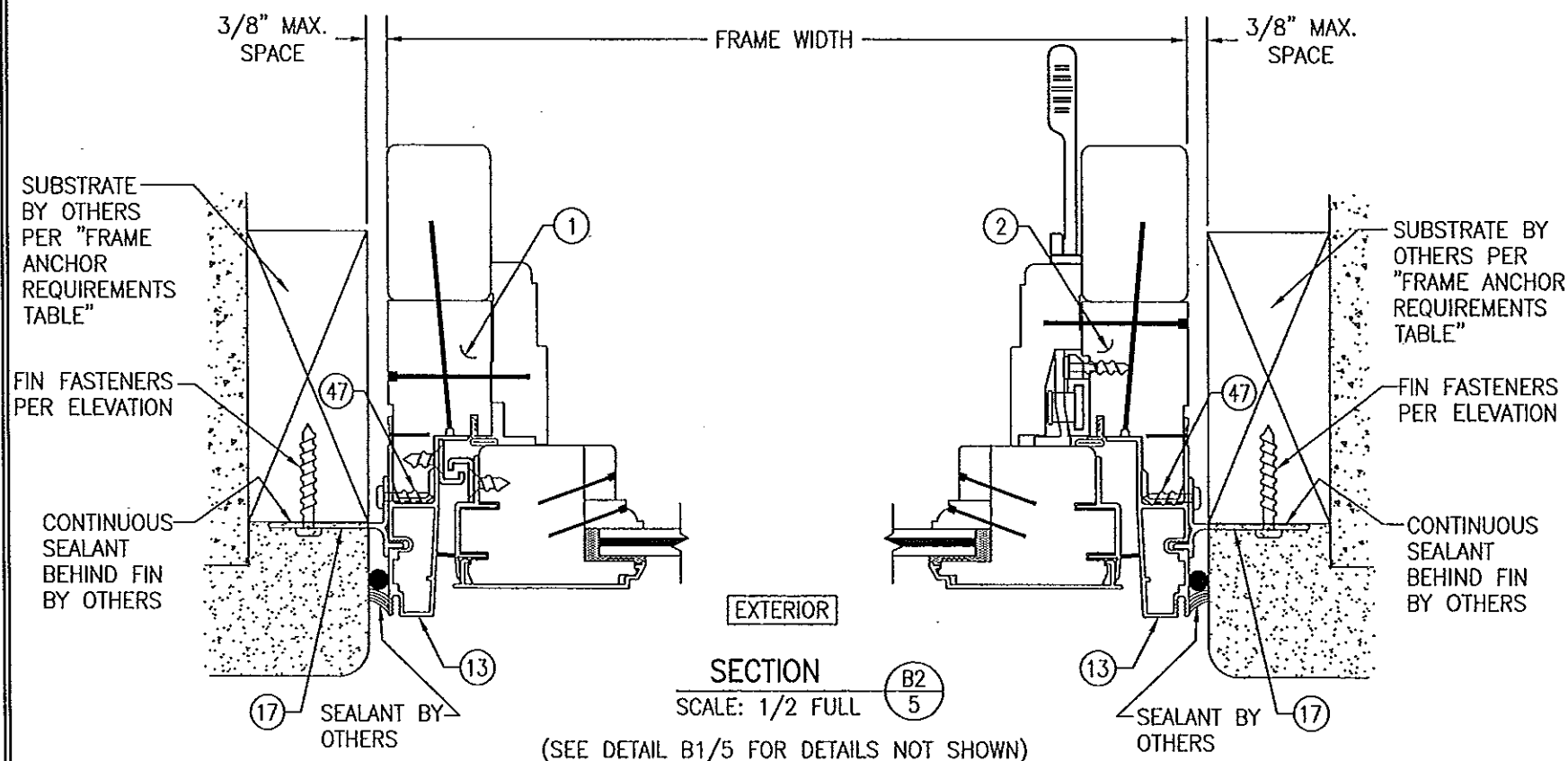
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DEC 18 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1403
SHEET NO. 4 OF 6



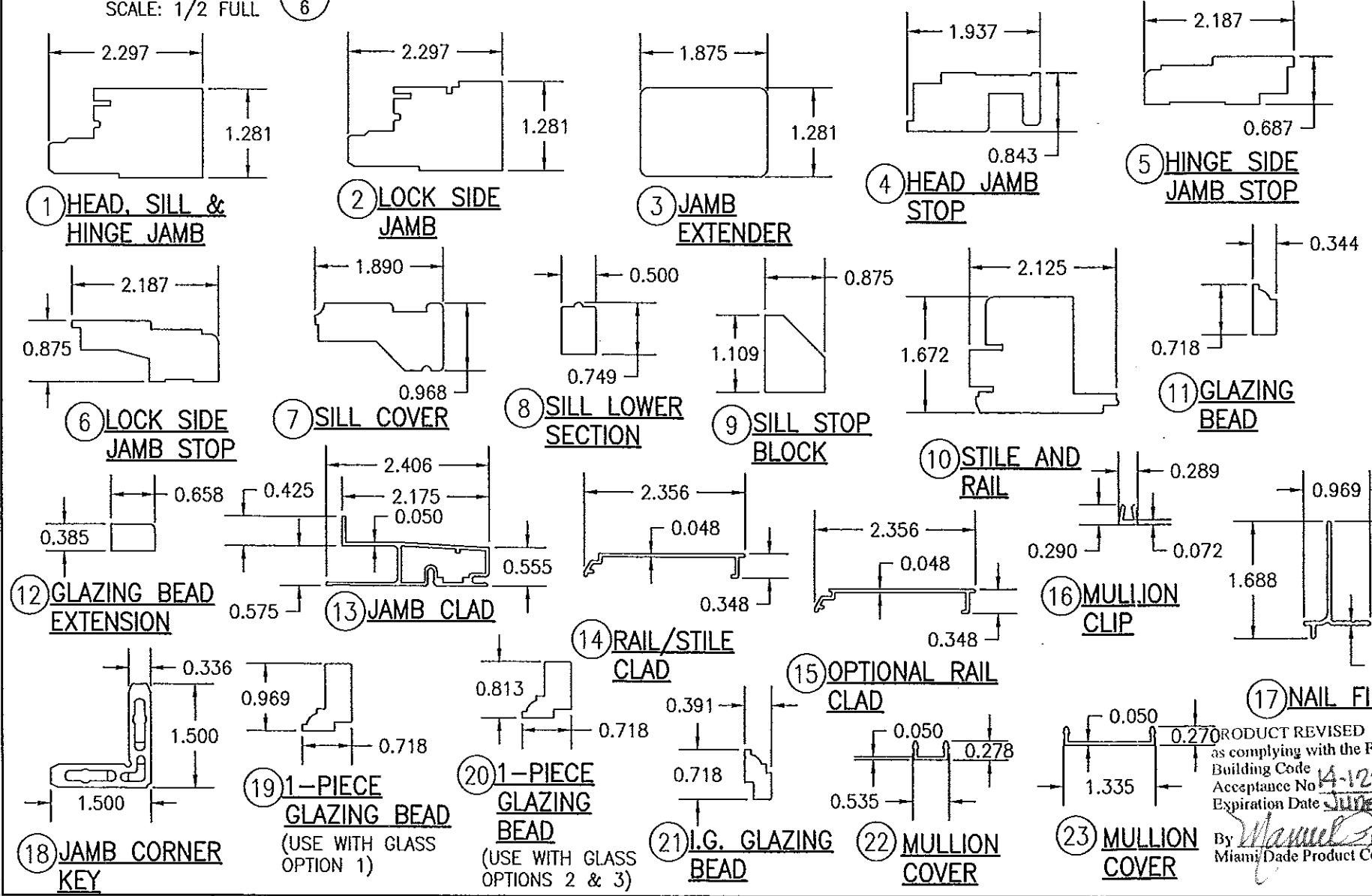
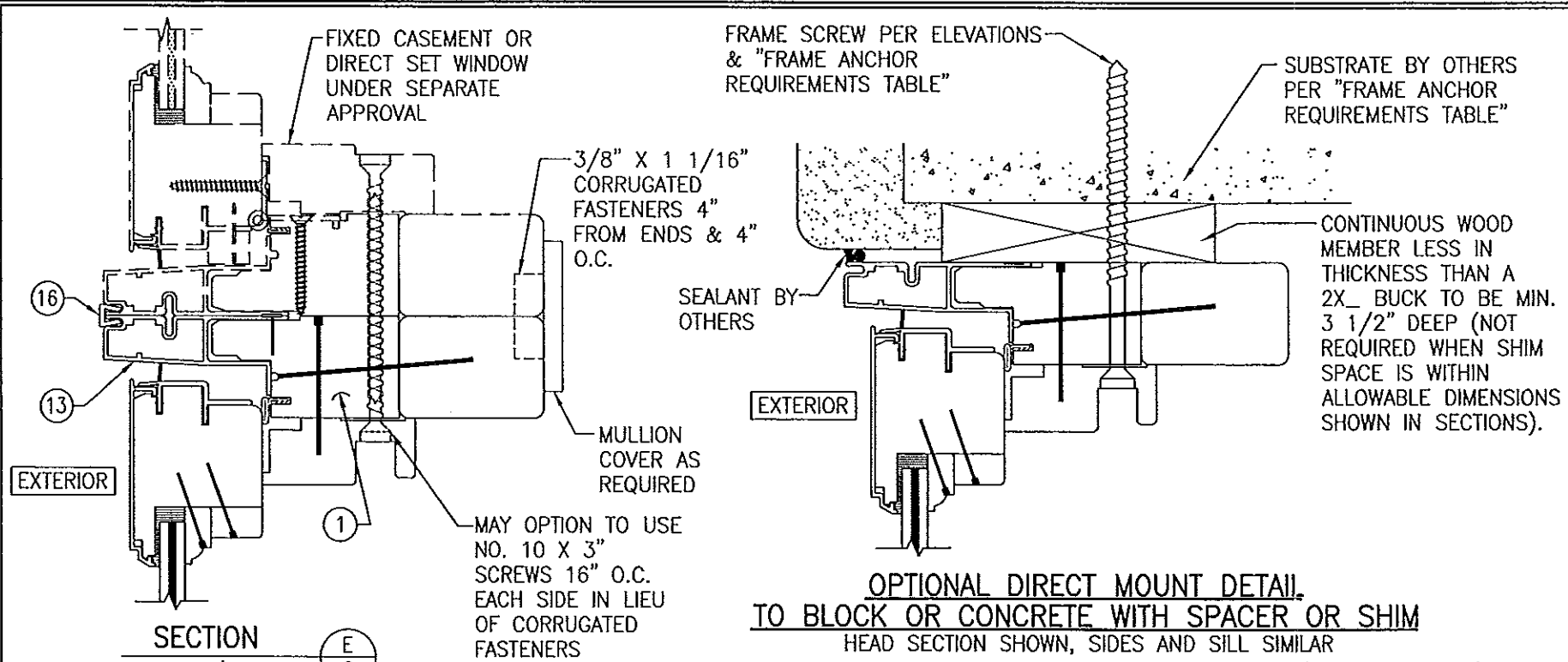
(SEE SECTION B1/5 FOR DETAILS NOT SHOWN)



(SEE SECTION B1/5 FOR DETAILS NOT SHOWN)

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 7/21/05
DATE	BY
REVISION DESCRIPTION	NO.
<p>DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW</p> <p>MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873</p> <p>CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424</p>	
CERTIFICATION	DEC 18 2014
DRAWING NO.	REV.
1403	D
SHEET NO.	5 OF 6

14-1224-03
Expiration Date: June 29, 2016
By: *Warren Schaefer*
Miami Dade Product Control



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	CCSE 215 HEAD, SILL, & HINGE JAMB	* PONDEROSA/SUGAR PINE
2	CCSE 223 LOCK SIDE JAMB	* PONDEROSA/SUGAR PINE
3	CCSE 225 JAMB EXTENDER	* PONDEROSA/SUGAR PINE
4	CCSE 260 HEAD JAMB STOP	* PONDEROSA/SUGAR PINE
5	CCSE 245 HINGE SIDE JAMB STOP	* PONDEROSA/SUGAR PINE
6	CCSE 235 LOCK SIDE JAMB STOP	* PONDEROSA/SUGAR PINE
7	CCSE 285 SILL COVER	* PONDEROSA/SUGAR PINE
8	CCSE 290 SILL LOWER SECTION	* PONDEROSA/SUGAR PINE
9	CCSE 295 SILL STOP BLOCK	* PONDEROSA/SUGAR PINE
10	ECSE 200 STILE AND RAIL	* PONDEROSA/SUGAR PINE
11	ALWD 375 GLAZING BEAD	* PONDEROSA/SUGAR PINE
12	300-0025 GLAZING BEAD EXTENSION	* PONDEROSA/SUGAR PINE
13	CCSE 440 JAMB CLAD	6063-T6 ALUMINUM
14	ECSE 400 RAIL/STILE CLAD	6063-T5 ALUMINUM
15	ECSE 405 OPTIONAL RAIL CLAD	6063-T5 ALUMINUM
16	PA 115 MULLION CLIP	6060-T5 ALUMINUM
17	- NAIL FIN	6063-T6 ALUMINUM
18	CCSE 620 JAMB CORNER KEY	NYLON 66 MATERIAL
19	216273 1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
20	216275 1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
21	- I.G. GLAZING BEAD	* PONDEROSA/SUGAR PINE
22	- MULLIN COVER	6063-T6 ALUMINUM
23	- MULLIN COVER	6063-T6 ALUMINUM
24	- MULLION BAR	6061-T6 ALUMINUM
25	- MULLION EXTRUSION	6063-T6 ALUMINUM
HARDWARE		
26	OPERATOR	AS REQUIRED
27	CCSE 711 SCISSOR HINGE	® HEAD AND SILL
28	ECSE 155 MULTI-POINT LOCK SYSTEM	TRUTH
29	21642.92 2 PIECE SNUBBER	0.320" X 0.531" X 1.844" LONG STAMPED STEEL
SEALS AND SEALANTS		
35	020546 FRAME WEATHERSTRIP	GREY SANTOPRENE FOAM
36	ECSE 625 SASH WEATHERSTRIP	VINYL
FASTENERS		
40	092748 13 GA. 1 1/2" RING SHANK NAIL	4" FROM CORNERS & 6" TO 12" O.C.
41	011824 16 GA. 1 3/4" T-NAIL	1" FROM CORNERS & 6" TO 10" O.C. ® SILL COVER & SILL LOWER SECTION AND 1 PER SILL BLOCK
43	013801 #8 X 1 1/4" PH S.S. SMS	2 PER LOCK STRIKE
44	010226 AUTO WIRE NAIL	2" FROM CORNERS & 6" TO 8" O.C.
45	024617 2 1/2" X 1" CROWN STAPLE	2" FROM CORNERS & 10 O.C.
46	019892 #18 X 1/2" GSN STAPLE	2" FROM CORNERS & 7" TO 10" O.C.
47	- #6 X 5/8" PH SCREW	2" FROM CORNERS & 9" O.C.
48	- NO. 8 X 1 1/4" S.S. SMS	2 PER SNUBBER INTO SASH
49	- NO. 7 X 1/2" S.S. SMS	2 PER SNUBBER INTO FRAME

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY HURD WINDOWS & DOORS TO SELECT.

DRAWN BY: S.T.R.
PLOT: 1-2
DATE: 7/21/05

CHECKED BY: W.W.S.
DATE: 7/21/05

DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER: HURD WINDOWS & DOORS
755 S. WHELEN AVE.
MEDFORD, WI 54451
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CERTIFICATION: DEC 18 2014
W. W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1403
SHEET NO. 6 OF 6

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 14-1224-438 Expiration Date June 29, 2016 By: [Signature] Miami Dade Product Control